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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-BBMP-KRIDL-W.No.14-2015-16 07.04.2015

Aggregate Impact Value
IS: 2386 Part IV

Client	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	**Technical Manager (West),** KRIDL, PIU, Bangalore.
Name of the Work	Improvments to roads & drains at Widia School East & North Road, C. Narayana Layout Cross Roads and Kuvempunagara Cross Roads in Ward No. 14, Bagalagunte, BBMP, Bangalore.
Reference	EE/DD/WO/371/2014-15 Dated: 31.03.2015
Sample ID	WMM Layer
Type of Mix	Wet Mix macadam
Date of Testing	07.04.2015

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	376	380	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	77	81	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	299	299	
4	Aggregate Impact value = percent fines	20.48	21.32	
	100* (W_2/W_1)%			**20.90**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

Note:

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Aggregate Impact Value
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Client	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
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Name of the Work	Improvments to roads & drains at Widia School East & North Road, C. Narayana Layout Cross Roads and Kuvempunagara Cross Roads in Ward No. 14, Bagalagunte, BBMP, Bangalore.
Reference	EE/DD/WO/371/2014-15 Dated: 31.03.2015
Sample ID	WMM Layer
Type of Mix	Wet Mix macadam
Date of Testing	07.04.2015

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	382	386	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	83	87	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	299	299	
4	Aggregate Impact value = percent fines	21.73	22.54	
	100* (W_2/W_1)%			22.13

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

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Job No.: CECTC-BBMP-KRIDL-W.No.14-2015-16 07.04.2015

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	**Technical Manager (West),** KRIDL, PIU, Bangalore.
Name of Work	Improvments to roads & drains at Widia School East & North Road, C. Narayana Layout Cross Roads and Kuvempunagara Cross Roads in Ward No. 14, Bagalagunte, BBMP, Bangalore.
Reference	EE/DD/WO/371/2014-15 Dated: 31.03.2015
Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Sample ID	WMM Layer
Date of Testing	07.04.2015

Result : Flakiness Index = **11.74%**

Elongation Index = **13.61%**

Result : Combined Flakiness & Elongation index 25.35%

Comments:

Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-BBMP-KRIDL-W.No.14-2016-17 07.04.2015

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, PIU, Bangalore.

Name of Work : Improvements to roads & drains at Widia School East & North Road, C. Narayana Layout Cross Roads and Kuvempunagara Cross Roads in Ward No. 14, Bagalagunte, BBMP, Bangalore.

Reference : EE/DD/WO/371/2014-15 Dated: 31.03.2015

Date of Testing : 07.04.2015

Material : WMM

Sample ID : WMM Layer Oven Dry Wt (gm): **13665**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	340	340	2.5	97.5	95-100
22.4	3650	3990	29.2	70.8	60-80
11.2	3265	7255	53.1	46.9	40-60
4.75	2155	9410	68.9	31.1	25-40
2.36	1895	11305	82.7	17.3	15-30
0.600	920	12225	89.5	10.5	8-22
0.075	1055	13280	97.2	2.8	0-8

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Job No.: CECTC-BBMP-KRIDL-W.No.14-2016-17 07.04.2015

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, PIU, Bangalore.

Name of Work : Improvements to roads & drains at Widia School East & North Road, C. Narayana Layout Cross Roads and Kuvempunagara Cross Roads in Ward No. 14, Bagalagunte, BBMP, Bangalore.

Reference : EE/DD/WO/371/2014-15 Dated: 31.03.2015

Date of Testing : 07.04.2015

Material : WMM

Sample ID : WMM Layer Oven Dry Wt (gm): **13880**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	360	360	2.6	97.4	95-100
22.4	3645	4005	28.9	71.1	60-80
11.2	3240	7245	52.2	47.8	40-60
4.75	2625	9870	71.1	28.9	25-40
2.36	1810	11680	84.1	15.9	15-30
0.600	750	12430	89.6	10.4	8-22
0.075	1085	13515	97.4	2.6	0-8

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